

Independent
Development

MV-PX250GC/GM

The Mindvision PX series is a high-speed industrial camera with CoaXPress-12 standard interface, including a variety of products ranging from 2 to 150 million pixels. The PX series is mainly applied to high frame rate and high pixel machine vision scenes, especially suitable for 3D line laser inspection, PCB inspection, biomedical, aerospace, scientific research and other applications.



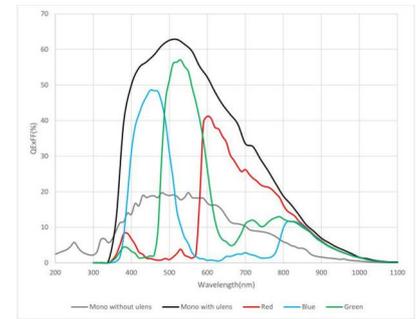
Application industry :

It is suitable for 3D line laser inspection, PCB inspection, biomedicine, aerospace industry, scientific research and other application fields.

Feature of product :

- CXP-12 interface, the maximum effective data transmission bandwidth is 4850Mbyte. It is 4 times that of 10 Gigabit network and more than 12 times that of USB3.0.
- Excellent SDK design, users do not need to operate the CXP collector card directly, eliminating the tedious configuration process, as simple as using a Gigabit network industrial camera.
- Support flexible combinations of 1, 2, and 4 channels.
- Use HD-BNC to realize standardised industrial-grade cable connections.
- The cable length can reach 10-65 meters(Confirm according to the specific wire specifications and technology), and a coaxial cable can realize signal trigger and power supply.

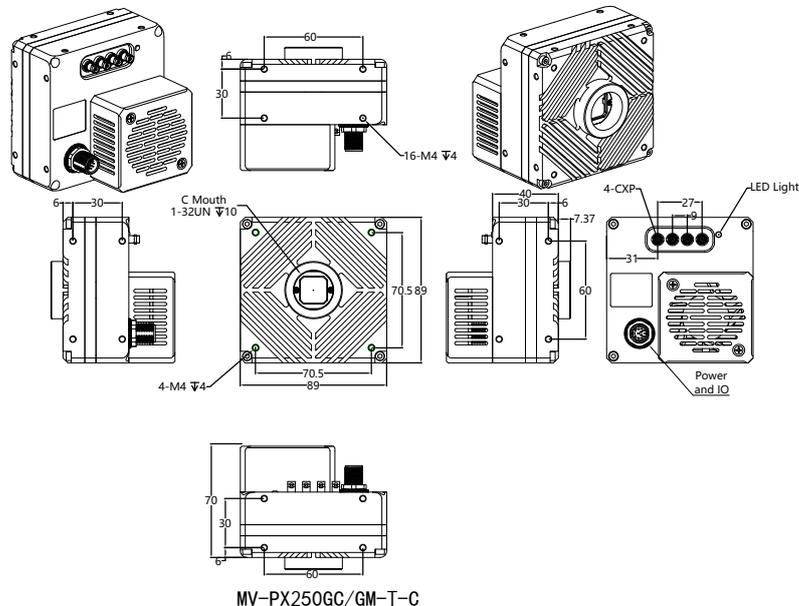
Spectrogram :



MV-PX250GC/GM

Mechanical Specifications:

unit:mm



TECHNICAL PARAMETER

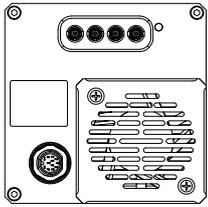
Parameter	Model	MV-PX250GC	MV-PX250GM
Optics		2/3"	
Exposure mode		Global exposure	
Sensor type		CMOS	
Camera type		Color	Mono
Pixel size		4.5umx4.5um	
Effective Pixels		2.5MP	
Resolution@ Frame Rate		2048x1216@1884fps	
Output pixel width		12bit	
AD width		12bit	
Signal to Noise Ratio		44.8dB	
Dynamic range		68.2dB	
Sensitivity		-84.6 dB @ 525 nm	
Acquisition mode		Continuous / Software-triggered / Hardware-triggered	
GPIO		2 differential inputs, 1 optocoupler-isolated input, 1 non-isolated output	
Maximum gain (multiple)		6	
Exposure time range (ms)		0.0010-65.5350	
User-defined data area		64KB	
Video output format		Bayer GB 8/12bit	Mono 8/12bit
Vision Standard Agreement		CoaXPress 2.1、GenICam	
Lens Mount		C-mount	
Data interface		CXP12-4 (HD-BNC interface)	
Power supply		PoCXP / DC 24V	
Power		<15W@DC24V	
Dimensions		89x89x40mm (excluding lens mount and rear shell interface)	
Weight		< 700g	
Operating temperature		0~50°C	
Operating humidity		20~80%(No condensation)	
Storage temperature		-30~60°C	
Storage humidity		20~95% (No condensation)	
Operating system		Windows XP/7/10/11 32/64bits、Linux 32/64bits	
Driver		Capture Card Control Software Compliant with the CoaXPress Protocol	
Programming language pack		C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java	
Other functions		Support any size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction,ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc.	

www.mindvision.com.cn


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Line Sequence Definition



Port	Pin Number	Color	Signal Name	Signal Description	Interface Type
Port A	1	Black	Power Supply Negative	Power Input Negative	Power Supply
	2	Red	Power Supply Positive	Power Input Positive	Power Supply
	3	Grey	RS422_IN1+	Encoder Phase A Input+	Differential Signal
	4	Pink	RS422_IN1-	Encoder Phase A Input-	Differential Signal
	5	Brown	RS422_IN2+	Encoder Phase B Input+	Differential Signal
	6	White	RS422_IN2-	Encoder Phase B Input-	Differential Signal
	7	Green	OPT_IN3+	Trigger Input+	Optocoupler Isolation
	8	Yellow	OPT_IN3-	Trigger Input-	Optocoupler Isolation
	9	Blue	OUT1+	General Purpose Output Positive	Non - isolated Output
	10	Light Green	OUT1-	General Purpose Output Negative	Non - isolated Output
	11	Purple	NC		
	12	Orange	NC		

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